

PESOV, Yu.Ya.

Pencils of one-dimensional geometrical objects in  $X_1^r$  of class 2.  
(MLR 9:2)  
Dekl. AN SSSR 104 no. 3356-359. 8 '55.

1. Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshevskogo.  
Predstavlenie akademikom P.S. Aleksandrovym.  
(Topology)

Geometry for  $n$ -dimensional spaces.

162-163

Petrov, P. I. (Kazan'). Classification Principle  
of Riemannian Manifolds According to Their Differential  
Invariants, and its Application.

163

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239930003-1"

Mention is made of Skhouten, I. A.

Card 52/80

AUTHORS: Liber, A. Ye, Penzov, Yu. Ye, and Rashevskiy, P.K. SOV/42-13-6-29/33

TITLE: Viktor Vladimirovich Wagner (on the Occasion of his 50<sup>th</sup> Birthday) (Viktor Vladimirovich Wagner (K pyatidesyatiletiju so dnya rozhdeniya))

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 6, pp 221-227 (USSR)

ABSTRACT: V.V.Wagner was born at Saratov in 1908. In 1927 he has finished the pedagogical technical school at Balashov, 1930 the correspondence course at the 2nd Moscow State University. Since 1932 he was aspirant under Prof. V.F. Kagan at Moscow. In 1935 - doctor dissertation on the differential geometry of non-holonomic manifolds. Since 1937 chair for geometry at the Saratov University. Domain of scientific work: non-holonomic, Riemannian, and Finsler geometry, geometric theory of partial differential equations. Wagner has published 62 papers (1935-1956). There is a photo of Wagner.

Card 1/1

There are 10 references, 7 of which are Soviet, 1 French, 1 Dutch, and 1 American.

Card 1/2

PENZOV, Yu.Ye.

Arithmetic of n-relations. Izv. vys. ucheb. zav.; mat.  
no.4:78-92 '61.

(MIRA 14:?)

1. Saratovskiy gosudarstvennyy universitet imeni N.O.  
Chernyshevskogo.

(Aggregates)

PENZOVA, V. E.

Kravchenko, A. I.; Penzova, V. E.

"Saponification of Esters of Organic Acids. I. Saponification of Esters of Monocarboxylic Acids." (p. 2076)

SO: Journal of General Chemistry, (Zhurnal Obshchey Khimii), 1950, Vol. 20, No. 10.

Hydrolysis of esters of organic acids. I. Hydrolysis of esters of monocarboxylic acids. A. I. Kravchenko and V. B. Penzova (Krasnoyarsk State Pedagog. Inst.). *Zhur. Osnov. Khim.* (J. Gen. Chem.) 20, 2076-9 (1950).-- Second-order rate consts.  $k$  (min.<sup>-1</sup>, mole<sup>-1</sup>) were detd. for the following hydrolysis reactions (at 17-18°): with NaOH 0.4 N, in 60% EtOH, BrOEt 0.021; BrOMe 0.034; iso-PrCO<sub>2</sub>Et 0.058; AcOAm 0.344; in H<sub>2</sub>O, BrOEt 0.0077; BrOMe 0.044. Further, with NaOH 0.18 N, in 60% EtOH: AcOEt 0.222; AcOBu 0.343; AcOAm 0.782, iso-PrCO<sub>2</sub>Et 0.031; (AcO)<sub>2</sub>CaH<sub>3</sub> (triacetin) 0.348 (0.116 per carboxyl group). HCO<sub>2</sub>Rt was hydrolyzed to the extent of 66.2% in 8 min. N. Thom

CA

2

Hydrolysis of esters of organic acids. I. Hydrolysis of  
esters of monocarboxylic acids. A. I. Kravchenko and V. E.  
P'enova. (Krasnoyarsk State Pedagogic Inst.). J. (1974).  
CMBR. O.S.S.R., 10, 3149-62(1970)(Engl. translation).  
Ref. C.A. 68, 22002. D. L. M.

BA

A. S.  
Chemical Equilibrium &  
Kinetic

Saponification of esters of organic acids. I. Saponification of esters of monocarboxylic acids. A. I. Kravchenko and V. E. Ivanova. *J. gen. Chem., USSR*, 1950, **20**, 2078-2079 (U.S. transl., 2149-2152).—The rates of hydrolysis by 0.4 or 0.18N-NaOH in eq. or 60% aq. EtOH solution are measured by titration of excess alkali. Relative to  $\text{Pr}^{\text{t}}\text{-CO}_2\text{Et}$ , the hydrolysis rates are as follows:  $\text{BrOEt}$ , 0.40;  $\text{BrOMe}$ , 0.61;  $\text{Pr}^{\text{t}}\text{-CO}_2\text{Et}$ , 1.00;  $\text{CH}_3\text{Bu}^{\text{t}}\text{-OAc}$ , 3.7;  $\text{EtOAc}$ , 7.1;  $\text{Bu}^{\text{s}}\text{-OAc}$ , 8.0; triacetin, 11.2. J. D. Bu'Lock.

PENZOV, YuYe.; RZHEKHINA, N.F.; GOKHMAN, A.V.; KABANOV, N.I.; KONOPLEVA,  
Yu.K.; LOSIK, M.V.; SPIVAK, M.A.; ZARETSKAYA, N.V., red.

[Problems in vector algebra] Sbornik zadach po vektornoi  
algebra. Saratov, Izd-vo Saratovskogo univ., 1964. 59 p.  
(MIRA 18:4)

PEPCHUK, P.A.

Method of determining the cohesive strength between electroplates  
and the basic metal. Zav. lab. 30 no.1:93-94 :64.

1. Leningradskiy sel'skokhozyaystvennyy institut.  
(MIRA 17:9)

L 13533-56 EWT(m)/EPF(n)-2/T/EWP(t)/EWP(b)/EWA(h)/EWA(c) IJP(c) JD/JW/JG  
ACC NR: AP5028978 SOURCE CODE: UR/0149/65/000/004/0090/0096

AUTHOR: Yelyutin, V. P.; Pepekin, G. I.; Lysov, B. S.

ORG: Moscow Institute of Steel and Alloys, High-Temperature Materials Dept (Moskovskiy institut stali i plavov, Kafedra vysokotemperaturnykh materialov)

TITLE: Dissociation on niobium pentachloride on niobium and carbide surfaces

SOURCE: IVUZ. Tsvetnaya metallurgiya, no. 4, 1965, 90-96

TOPIC TAGS: niobium compound, chlorine compound, metal deposition, thermodynamic property, activation energy

ABSTRACT: Nb and NbC were experimentally deposited on Nb thread and graphite thread, respectively, from NbCl<sub>5</sub> in a helium current. The rate of formation of the solid products was determined by weighing the thread before and after the process of deposition, at periodic intervals of time, and the composition of the coating was radio-graphically analyzed. On this basis, the following empirical equation was derived for the rate of Nb deposition as a function of the partial pressure of NbCl<sub>5</sub> in the vapor-gas phase

$$W = 1.6 \cdot 10^{-3} p^{0.7}$$

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UDC: 669.293

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ACC NR: AP5028978

and for the rate of deposition

$$W = 1.88 \cdot 10^{-3} P^{0.8}$$

where  $W$  is the rate of Nb deposition, g-atom/cm<sup>2</sup>-0.5 hr and  $P$  is the partial pressure of  $\text{NbCl}_5$ , atm. In the latter formula the slightly higher order of magnitude with respect to the concentration of  $\text{NbCl}_5$  at which the activation energy of the process markedly decreases with decomposition of  $\text{NbCl}_5$  on NbC surface, as compared with Nb surface, may be attributed to the virtually total absence of inhibition of the reaction by Cl in the case of deposition of NbC. It appears that the reason for this lies in the different catalytic properties of Nb and NbC. A comparison of the findings on specific weight gain within 0.5 hr indicates that in the presence of partial pressures of  $\text{NbCl}_5$  amounting to  $0.78 \cdot 10^{-2} - 6 \cdot 10^{-2}$  atm the deposition rate of NbC is time-independent. This, as well as the sufficiently high activation energy of the total process (33 kcal/mole) shows that in the 1500-1800°K temperature range the rate of the total process is limited by the surface chemical reactions. Thus, a comparison of the kinetic laws of the processes of deposition of Nb and NbC is of interest only in conditions when the rates of these processes are determined by the rates of the surface chemical reactions. For deposition of NbC on a graphite substrate, such conditions are observed only in the presence of small concentrations of  $\text{NbCl}_5$  in the vapor-gas phase (less than  $6 \cdot 10^{-2}$ ) and comparatively low temperatures (1500-1800°K) close to the initial temperature of the formation of  $\text{Nb}_2\text{C}$ . The unfavorable thermody-

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L 13533-66

ACC NR: A15028978

dynamic conditions for the reduction of  $\text{NbCl}_5$  with carbon (graphite wire), on the one hand, and the similarity between the kinetic equations of the dependence of the decomposition rate of  $\text{NbCl}_5$  on the concentration of  $\text{NbCl}_5$  in the vapor-gas phase for decomposition into both Nb and Nbc, on the other, indicate that the mechanism of segregation of the metal from  $\text{NbCl}_5$  is the same in both cases. In other words, when  $\text{NbCl}_5$  is decomposed in the presence of carbon, even under conditions thermodynamically unfavorable to the deposition of Nb, the function of carbon consists solely in carburizing the metal released in the process of the thermal dissociation of  $\text{NbCl}_5$ . Orig. art. has: 4 tables, 3 figures, 5 formulas.

SUB CODE: 07, 11/ SUBM DATE: 10Jul64/ ORIG REF: 003/ OTH REF: 003

Card 3/3

LEBEDEV, Yu.A.; LIPANIN, G.G.; PEPEKIN, V.I.; APIN, A.Ya.

Thermochemical study of individual explosives and their  
compositions. Vzryv. delo no.52/9:80-90 '63.

1. Institut khimicheskoy fiziki AN SSSR.

(MIRA 17:12)

PEPELEV, G.I., gornyy inzh.; NEPOMNYASHCHIY, S.I., gornyy inzh.

Improving the structural elements of mining systems. Gor. zhur.  
no.4:67-68 Ap '65. (MIRA 18:5)

1. Vysokogorskoye rudoupravleniye.

PEPELEV, G.I.

Decrease of traumatism at the "Magnetitovaya" Mine.  
Gor. zhur. no.5:59-61 My '64. (MIRA 17:6)

1. Zamestitel' glavnogo inzhenera Vysokogorskogo rudoupravleniya.

SOKOL, I.B.; PEPELIN, B.A.; RUTKOVSKIY, V.I.

New developments in the baking of molds for precision casting.  
Lit. proizv. no. 8:4-6 Ag '60. (MIRA 14:2)  
(Precision casting) (Molding (Founding))

YELYUTIN, V.P.; PEPEKIN, G.I.; LYSOV, B.S.

Dissociation of niobium pentachloride on niobium and carbide  
surfaces. Izv. vys. ucheb. zav.; tsvet. met. 8 no.4:90-96 '65.

(MIRA 18:9)

1. Kafedra vysokotemperaturnykh materialov Moskovskogo instituta  
stali i splavov.

YELYUTIN, V.P.; PEPEKIN, G.I.; LYSOV, B.S.

Thermodynamic calculations of certain reactions occurring during the precipitation of titanium carbide from the gaseous phase. Izv. vys. ucheb. zav.; chern. met. 6 no.11:5-10 '63. (MIRA 17:3)

1. Moskovskiy institut stali i splavov.

ACCESSION NR: AP4022897

S/0148/64/000/003/0124/0130

AUTHORS: Yelyutin, V.P.; Pepekin, G.I.; Lysov, B.S.

TITLE: Investigation of the titanium carbide formation process precipitated from the gaseous phase

SOURCE: IVUZ. Chernaya metallurgiya,<sup>7</sup> no.3, 1964, 124-130

TOPIC TAGS: titanium carbide, titanium tetrachloride, methane dissociation, vapor pressure, hydrogen, titanium tetrachloride

ABSTRACT: Although the method of precipitating titanium carbide is well known, the mechanism of the formation of high-melting carbides remains to be studied. For that purpose, the authors observed the process of titanium carbide precipitation from a mixture of titanium tetrachloride, methane and hydrogen. The process took place in the gas flow (hydrogen, helium) at atmospheric pressure. The possibility of forming metallic titanium under conditions of a substantial excess of hydrogen was investigated by holding an incandescent titanium filament in a gas flow consisting of titanium tetrachloride and hydrogen vapors. In all tests the titanium filament was dissolved which co-

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ACCESSION NR: AP4022897

incides with available thermodynamic data. The authors attribute the precipitation of titanium carbide to the reaction of elementary decomposition of methane that occurs on the hot surface. This reaction has been studied in great detail by many authors and the thermodynamic as well as the kinetic constant are well known. Methane was found to be thermically unstable dissociating at temperatures above 1000°C. Therefore, the processes of the formation of a carbide film on the carbon surface differ only in that the carbon is provided by the diffusion of the carbon base or as a result of the decomposition of methane by the gaseous phase. In the latter case, the rate of titanium carbide formation is affected by the partial pressure of methane in the initial mixture. The increase in the partial pressure was accompanied by an increase in the rate of titanium carbide formation. However, above  $1.4 \cdot 10^{-2}$  atm, partial pressure either accelerates the formation very little or not at all. Titanium tetrachloride was not affected by the partial pressure of methane. The authors account for the precipitation of metal by the reducing effect of hydrogen on titanium tetrachloride. Orig. art. has 5 figures and 3 tables.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

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ACCESSION NR: AP4022897

SUBMITTED: 21Jun63 DATE ACQ: 10Apr64 ENCL: 00

SUB CODE: ML, CH NR REF Sov: 003 OTHER: 004

Card 3/3

MOISEYEV, A.M.; CHEREZOV, Ye.S.; PEPELEV, A.V.

Machine for cubing vegetables. Kons.i ov. prom. 16 no.2:10-12  
(MIRA 14:4)  
F '61.

1. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy  
promyshlennosti (for Moiseyev, Cherezov). 2. Krasnodarskiy  
liteyno-mekhanicheskiy zavod (for Pepelev).  
(Canning and preserving--Equipment and supplies)

SOBKOV, V.A., gornyy inzh.; PEPELEV, G.I., gornyy inzh.; DOROSHENKO, V.M.,  
gornyy inzh.; CHERNORUTSKIY, Ye.T., gornyy inzh.; NOVIKOV, K.P.,  
kand. tekhn. nauk

Improved variation of the combined system of mining thick seams  
of self-igniting ores. Gor. zhur. no.2:13-17 F'62.

(MIRA 17:2)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239930003-1

PEPELIN, B.A., inzh.

Book reviews. Lit. proizv. no.1:47 Ja '66.

(MIRA 19:1)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239930003-1"

PEPEL'EV, N.

K stroitel'stu zheleznozernoi linii Ural'sk-Iletsk. [On the construction of Ural'sk-Iletsk railway line]. (Transportnoe stroitel'stvo, 1934, no. 12, p. 7-8)

DLC: HE7.T7

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

VLOKH, N.P.; MOSHINSKIY, L.G.; BRUN, B.S.; ZOLOTAREV, M.A.;  
PEPELIAYEV, B.I.; TAMGIN, V.S.

Eliminating cavities at the Pokrovskiy mine. Gor. zhur.  
no. 12:73-74 D '65.  
(MIRA 18:12)

PEPELYAMEV, B.V.; TEREKHOV, M.I.

New data on the stratigraphy of the Alazeya Plateau. Sov.geol.  
5 no.2:140-144 F '62. (MIRA 15:2)

1. Severo-Vostochnoye geologicheskoye upravleniye Glavgeologii  
RSFSR.

(Alazeya Plateau—Geology, Stratigraphic)

87658

18.1210

S/137/60/000/010/008/040  
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 10, p. 95,  
# 23162

AUTHORS: Khazanov, Ye.I., Katkov, O.M., Pepelyayev, P.Ye.

TITLE: Experience in the Melting of Silico-Aluminum Alloys From Sillimanite Concentrate in an Electric Furnace

PERIODICAL: Tr. Vost.-Sib. fil. AN SSSR, 1959, No. 24, pp. 106 - 111

TEXT: Experiments were made to obtain Si-Al alloys from sillimanite concentrate (briquetted and granulated) in a large size electric laboratory furnace. Sillimanite concentrate, commercial alumina were used as initial materials and coal as a reducing agent; aqueous solution of sulfite alkali of 1.255 specific weight was used as a binding material. The degree of refining of the concentrate was 97% - 0.149 mm. The charge was calculated to obtain an alloy with about 68 Al. The amount of the reducing agent was 100% of the amount required for the reduction of all the oxides in the charge. An amount of 2 - 4% sulfite alkali was introduced into the charge (moisture of the charge 15 - 37%), briquetted and

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87658

S/137/60/000/010/008/040  
A006/A001

Experience in the Melting of Silico-Aluminum Alloys From Sillimanite Concentrate  
in an Electric Furnace

melted in a single-phase electric arc furnace with a conducting carbon bottom. On the average 10 - 12 kg charge materials per hour were melted in the furnace. Teeming of the metal was made periodically every 30 minutes. The temperature of the tap metal was 1,500 - 1,600°C. Melting of the granulated charge proceeds smoothly and has the same indices as those of a briquetted charge.

G.S.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

KOLBANDOVSKIY, Yu.A.; PEPELYAYEV, Yu.V.; POLAK, L.S.

Effect of temperature on the radiolysis of heptane adsorbed  
on  $\text{Al}_2\text{O}_3$ . Neftekhimiia 3 no.1:124-127 Ja-F '63. (MIRA 16:2)

1. Institut neftekhimicheskogo sinteza AN SSSR.  
(Heptane) (Gamma rays)  
(Aluminum oxide)

S/204/63/003/001/010/013  
E075/E436

AUTHORS: Kolbanovskiy, Yu.A., Pepelyayev, Yu.V., Polak, L.S.

TITLE: The influence of temperature on the radiolysis of n-heptane adsorbed on Al<sub>2</sub>O<sub>3</sub>

PERIODICAL: Neftekhimiya, v.3, no.1, 1963, 124-127

TEXT: The aim of the work was to investigate the effect of temperature on  $\gamma$ -radiolysis of n-heptane adsorbed on  $\gamma$ -Al<sub>2</sub>O<sub>3</sub>. The catalyst was activated at 500°C and pressure of 10<sup>-4</sup> mm Hg for 10 hours. A monolayer of n-heptane adsorbed on Al<sub>2</sub>O<sub>3</sub> was irradiated (doses of  $2.4 \times 10^{16}$  eV/cm<sup>3</sup> sec in the temperature range 20 to 350°C. Compared with the results of the irradiation in a homogeneous system, the heterogeneous process is characterized by the absence of unsaturated hydrocarbons in the products. This may be due to irreversible adsorption of such hydrocarbons on Al<sub>2</sub>O<sub>3</sub> surface. The decomposition of n-heptane at temperatures above 150°C is a chain process. At 350°C the decomposition yield is about 300 molecules/100 eV and the total activation energy is  $14.5 \pm 1.5$  kcal/mol. As the activation energy for the homogeneous decomposition is about 20 kcal/mol, the difference is probably caused by the heat of adsorption of the

S/204/63/003/001/010/013

The influence of temperature ... E075/E436

radicals. The life of radicals on the irradiated  $\text{Al}_2\text{O}_3$  surface at  $150^\circ\text{C}$  is about  $10^{-6}$  sec. There are 1 figure and 1 table.

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR  
(Institute of Petrochemical Synthesis AS USSR)

SUBMITTED: July 9, 1962

Card 2/2

PEPELYAYEVA, Ye. A.

"Potassium Fluozirconate," I. Ya. Bashilov, A. Sh. Vaks, and Ye. A. Pepelyayeva. Russ. 53,515, July 31, 1938. A soln. of  $Zr_3(PO_4)_4$  is treated with HF and then with  $K_2CO_3$ .

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239930003-1

PEPELYAYEVA, Ye. A., and SAZHIN, N. F.

"Separation of Hafnium and Zirconium and Production of Pure Zirconium Dioxide,"  
a paper presented at the Atoms for Peace Conference, Geneva, Switzerland, 1955

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239930003-1"

PEPELYAYEVA, YE. A.

Works of the All-Union Peat Institute, (Min. of Agri. RSFSR),  
Number 3, 1933, 189 pages. Section on the Study of Peat Beds:  
"The Problem of Study of the Bottoms of Bodies of Water of the  
Mytishchi Peat Pits of Moscow Oblast." by Pepelyayeva, Ye. A.

SO; Botanicheskiy Zhurnal, Vol XXXV, No 1, pp 100-110,  
Jan-Feb 1950, Russian bimo per, Moscow/Leningrad (U-5511,  
12 Feb 1954)

L 52342-55 EIT(c)/EPF(n)-2/EMU(j)/EPA(n)-2/ESI(h)/EMP(j)/EMT(m)/EMP(l)/T/EWA(d)/  
EWA(1)/EMP(e) Pe-4/Pr-4/Pt-7/Tu-4/Pb-3 CO/PU/SH

ACCESSION NR: AP5011681

UR/0195/65/006/002/0237/0243

66

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B

19

AUTHOR: Kolbanovskiy, Yu. A.; Pepelyayev, Yu. V.

TITLE: Kinetics of hydrogen adsorption by alumina during gamma irradiation

SOURCE: Kinetika i kataliz, v. 6, no. 2, 1965, 237-243

TOPIC TAGS: alumina, hydrogen adsorption, chemisorption, radiolysis, catalysis

ABSTRACT: The authors studied the kinetics of radiation chemisorption of hydrogen by alumina. The number of active surface centers with respect to chemisorption was determined, and an attempt was made to describe the mechanism of the process at a temperature of approximately 300°K. In a previous article, (see Yu. A. Kobanovsky, Yu. V. Pepelyayev, L. S. Polak, Neftekhimiya, 3, 124, 1963) on the effect of temperature in radiolysis of hydrocarbons in the presence of heterogeneous catalysts, it was found that the reactions of adsorbed radicals are very important. In this

radical reaction

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L 523.2-65

ACCESSION NR: 4P5011681

formed which may either recombine or "adhere" to the surface. It is experimentally found that the rate of adsorption is proportional to the amount of radiation.

tion in presence of radiation, phase which then adheres to the surface. An equation for the radiation chemisorption is

$$-\frac{dp}{dt} = K' p^2 \alpha (1 - \theta),$$

Where  $\alpha$  is the number of adsorption centers per square centimeter of surface;  $\theta$  is the fraction of occupied adsorption centers. Since a closed system was studied, and the concentration and number of molecules in the gaseous phase is easily determined from the pressure ( $n = \frac{PV}{RT}$ ), this equation may be written in the form

$$-\frac{dn}{dt} = k' n^2 V^2 \alpha (1 - \theta),$$

where  $k' = K' / VT$ ;  $n$  is the number of molecules in the gaseous phase at time  $t$ . If it is assumed that the number of occupied centers through the surface is equal to twice the number of molecules leaving the gaseous phase, i.e.,  $S\theta = 2(n-n')$ , this equation is found to be the following:

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L 52342-68

ACCESSION NR: A9501081

served process of radiation chemisorption. The absorption centers are apparently structural defects in the  $\text{Al}_2\text{O}_3$  lattice. Activation analysis showed that the alumina used in the experiments contains less than 0.01 weight percent iron. Even if it is assumed that all the iron ions were in the +3 oxidation state, the amount

of iron ions being adsorbed would not exceed 0.001%.

"The authors are indebted to I. S. Tsvetkov for proposing the theme for study, and to D. Ya. Margolis and A. Ya. Rozovskiy for useful discussion. We are extremely grateful to I. T. Lourinskaya for activation analysis of the alumina samples."

ASSOCIATION: Institut neftakhimicheskogo sinteza im. A. V. Topchiyeva AN SSSR  
(Petroleum Chemistry Synthesis Institute, AN SSSR)

SUBMITTED: 04 Apr 63 ENCL: 00 SUB CODE: GC, NP

NO REF Sov: 006 OTHER: 007

Card 3/3 PWS

P. Pen Kay, A.T.

25(5)100(5)

PEACE &amp; DICT. EXPERTISE

807/25/5

Source: Naukova Dumka (Scientific Books) Leningrad

Voprosy gospodarskogo chelovecheskogo kapitala (vyschishchi sushchestvuyushchimi strukturnymi protsessami, a takie strukturnye protsessy v perekrestnykh (problems of Increasing Economic Efficiency and Organization of Construction Work and Planning) Moscow, Gosstroyizdat, 1959. 672 pp. (series The Study, Vol. 16.) Kreata sliu izdaniye. 20,000 copies printed.

Additional Publishing Agencies: UNOPI. Gossudarstvennyy komitet po delam gosudarstvennoy i narodnoy ekonomiki. Akademicheskaya struktura, strukturnye i strukturno-funktsional'nye instituty ekonomicheskikh struktur, ekonomicheskaya organizatsiya.

Editor: D. I. Slobodtsev, G. S. Chubarev, S. A. Kostomarov, I. A. Kostomarov, A. G. Korobkov, V. V. Oprechenko, N. A. Pecherskiy, V. G. Serebryakov, A. N. Shcherbinin, T. M. Tikhonova, N. G. Ulyanova. Editorial Board of the Institute A. N. Shcherbinin Press, Ed.: P. G. Ulyanova. Editorial Board of the Institute A. N. Shcherbinin (Press, Ed.) Doctors: Yu. G. Lebedev, V. G. Ovchinnikov, V. V. Voznesensky, Professor: S. P. Vorob'yov, V. G. Demchenko, Professor: N. A. Demchenko, V. V. Demchenko, Professor: S. Ya. Karpashev, Professor: P. V. Kondratenko, Professor: N. M. Mat'kin, Professor: I. I. Okulichikov, Professor: N. Ye. Pashov, Professor: L. M. Rakhimov, Professor: N. A. Radovil', Professor: G. V. Trubnikov, Professor: S. A. Tsel'niker, Professor: N. V. Voznesensky, Candidate of Technical Sciences: V. P. Glazkovsky (Chairman) Doctor: Yu. I. Voznesensky, Professor: M. S. Gurvitch, I. Ye. Ivankov, Doctor: S. N. Mordin, Candidate of Technical Sciences.

Annotation: This collection of articles is intended for staff members of construction organizations, design bureaus, and scientific research establishments as well as for faculty members and students of institutions of higher education.

CONTENTS: This collection of reports on construction problems was originally presented and discussed at a scientific-technical conference held in Kiev in February 1959 under the auspices of the Ministry of Engineering and Construction and scientific organizations. Possibilities of increasing economic benefits from capital investments by improving methods of organizing and planning construction projects are reviewed. Benefits of efforts by construction and design organizations to reduce the costs of construction and building operations, to introduce economic accountability and planning in labor and capital construction units, to increase the productivity of labor, and to boost work and planning efficiency are analyzed. Problems in preparing estimates, making financial forecasts, and financing construction projects are discussed. No references are given.

Penman, A. Z. Ways of Reducing Costs of Industrial Construction

Gorbunov, I. P. Principles of Developing and Distributing Construction Supply Centers in Economic-Administrative Regions	102
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Card 4/1

PEPELYAYEV, B.V.; TEREKHOV, M.I.

Find of Psilophytales in Devonian deposits of the middle basin  
of the Kolyma River. Dokl. AN SSSR 143 no.4:931-934 Ap '62.  
(MIRA 15:3)

1. Severo-Vostochnoye geologicheskoye upravleniye, G.Magadan.  
Predstavлено академиком N.M.Strakhovym.  
(Yasachnaya Valley--Paleobotany, Stratigraphic)

AKHTYRSKAYA, T.I.; PEPENKO, V.D.; FEDYANIN, B.I.

Small batch production of molds on a sand slinging and squeeze  
molding machine. Lit. proizv. 5:21-23 My '64. (MIRA 18:3)

TYUTYUNNIKOV, B.N., prof., doktor tekhn.nauk; NOSKOV, B.A., dotsent, kand.  
tekhn.nauk; RYZHKOV, I.V., kand.tekhn.nauk; PEPEŃKO, V.D., assistent;  
BOGDAN, I.V., inzh.

Liquid water glass mixtures. Izv.vys.ucheb.zav.; mashinostr. no.4:  
60-63 '60. (MIRA 14:4)

1. Khar'kovskiy politekhnicheskiy institut.  
(Soluble glass)

PEPENKO, V. D. Cand Tech Sci -- "Study of ~~the~~ modes of compressing foundry  
molds by <sup>a</sup> combined methods." Kiev, 1960 (Min of Higher and Secondary Specialized  
Education UkrSSR. Kiev Order of Lenin Polytechnic Inst. Chair of "Foundry  
Production"). (KL, 1-61, 195)

-225-

FEDYANIN, B.I.; AKHTYRSKAYA, T.I.; PEPENKO, V.D.

Compacting large molds by pressing. Lit.proizv. no. 7:15-16 J1  
'62. (MIRA 16:2)  
(Machine molding (Founding))

PERCHENKO, A.A.; KOTEL'NIKOV, B.P.; MARCHENKO, M.A.

Oxidation of a mixture of solid and liquid paraffins to acids.  
Khim. i tekhn. topl. i masel 9 no.2:22-27 F '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut  
sinteticheskikh zhirozameniteley.

I 58883-45  
PS-L/Pt-7  
ACCESSION N

RPT(c)/EPR/KPA(s)-2/KPA(w)-2/BPT(m)/EXP(i)/EXP(b)/T/EXP(e) Pr-1/

WW/WH/JG

NR: AP5019002

UR/0286/65/000/012/0027/0027

621,3.056.6

AUTHOR: Pepeshko-Kravchenko, S. I.

TITLE: A method for making cermet contacts. Class 21, No. 171892 15

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 12, 1965, 27

TOPIC TAGS: cermet, electrical contact

ABSTRACT: This Author's Certificate introduces a method for making cermet contacts. The method consists of shaping the contacts and welding them in a contact holder. The process is simplified and the reliability of the contact fastening is improved by combining the shaping and welding operations. The contact receptacle is filled with a dose of powder and an electrode is then used for pressing the holder into the receptacle. A second electrode is then applied to the other side of the receptacle and a current is passed through it.

ASSOCIATION: none

SUBMITTED: 28May52

ENCL: 00

SUD CODE: MT, EE

Card 1/2

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239930003-1

L 58803-65  
ACCESSION NR: AP5019002

NO REF SOV: 000

OTHER: 000

KL  
Card 2/2

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239930003-1"

VASIL'YEVA, N.N., assistant; PER, M.I., prof.; MASHKILLEYSON, A.L.,  
ordinator.

Nucleic acids and glycogen of the skin in pemphigus. Trudy  
l-go MMI 22:329-339 '63 (MIRA 18:2)

L-35528-65 ACCESSION NO.	ENT(m)/EP=(c)/T Pr-4 WE AP5008151	S/0285/65/000/005/0058/0058
AUTHORS: <u>Nikolayeva, V. O.</u> , <u>Popova, E. M.</u> , <u>Perchenko, A. A.</u> , <u>Iyzenko, M. N.</u> ; <u>Sen'kina, M. I.</u>	17 B	
TITLE: A method for lowering the congealing temperature of fuels. Class 23, No. 163829		
SOURCE: Bulletin' i zobrazheniy i tavarysh zhakov, no. 3, 1961, p. 10		
TOPIC TAGS: fuel, temperature shift		
NOTES: ... certificate presents the application of what remains of fairly		
ASSOCIATION: DOKA		
SUBMITTED: 25Aug62	ENCL: 00	6 13 LEXIS 70, FF
NO REV SET: 000	OTHER: 000	
Card 1/1		

FEDYANIN, B.I., inzh.; AKHTYRSKAYA, T.I., inzh.; PEPENKO, V.D., kand.  
tekhn. nauk

Pressing large molds. Mashinostroyenie no.3:32-35 My-Je '63.  
(MIRA 16:7)

I. Khar'kovskiy filial instituta avtomatiki.  
(Molding machines)

ANASHENKO, N.N., kand.tekhn.nauk, dotsent; PEPEJKO, V.D., assistent

Compaction of molds by shaking and repressing. Izv.vys.ucheb.  
zav.; mashinostr. no.11:77-82 '60. (MIRA 14:1)

1. Khar'kovskiy politekhnicheskiy institut.  
(Molding (Foundry)—Equipment and supplies)

MARGULES, Anton Urenovich; VOLOVICH, Bentsion Mendelevich; PEPEKO, V.D.,  
retsenzent; FURER, P.Ya., red.

[Modernizing the equipment of a foundry shop; factory practice]

Modernizatsiya oborudovaniia liteinogo tschka; opyt zavoda.

Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960.

60 p.

(MIRA 13:12)

(Foundries--Equipment and supplies)

PEPERNIK, V., kapitan

It is necessary to have removable packing equipment (comment on  
the article of V.Ryshkov in No. 4, 1962). Voen. vest. 42  
no.8:88 Ag. '62. (MIRA 15:7)  
(Transportation, Automotive—Equipment and supplies)

PEPEONIK, Zlatko

Kenya, a new free country of Africa. Geogr hor 9 no.3:15-29  
'63.

DOBRZHANSKIY, G.F.; BELYAYEV, L.M.; PEPETROV, I.P.; RYBGIN, Yu.F.; FEDOSOV,  
A.Ye.; CHERNYSHEV, K.S.

Transmission spectra of single crystals of copper bromide and  
chloride. Kristallografiia 9 no.6:928-929 N-D '64.

(MIRA 18:2)

1. Institut kristallografii AN SSSR.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239930003-1

PEPEONIK, Zlatko

Greenland. Geogr hor 9 no.1/2:55-60 '63.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239930003-1"

BELIKOV, I.F.; PEPIK, L.Ye.

Effect of the removal of the tip of the main stem on the vegetative growth and seed yield of the soybean. Scob. DVFAK SSSR no.18:63-65 '63. (MIRA 17:11)

1. Dal'nevostochnyy filial imeni Komarova Sibirskskogo otdeleniya AN SSSR i Dal'nevostochnyy gosudarstvennyy universitet.

1.--The Behaviour of Rhodium in Polarographic Analysis. 11.--The polarogra-  
phic Determination of Rhodium in the presence of Iridium and Platinum.  
S. A. spin (Zhur. Priklad. Khim., 1947, 20, (1/2), 46-62)--(In Russian)  
(11.--) Out of 20 mineral and organic ground solutions experimentally tested,  
he recommends pyridine ~~water~~ chloride solution, which gives a  
compound with Rh suitable for the quantitative determination of the metal.  
(11.--) A method worked out for the determination of Rh in the presence of  
Ir and Pt gives a high degree of accuracy, even when the Rh content is  
0.001 g./l. of solution. The error is 2-3% of the absolute quantity of Rh  
present. An analysis takes 50-60 min. --DA

ASR-SEA METALLURGICAL LITERATURE CLASSIFICATION

**APPROVED FOR RELEASE: 06/15/2000**

CIA-RDP86-00513R001239930003-1"

DEBSKA, Wanda; PEPKE, Jan

Asepsis in pharmaceutical practice. Farmacja Pol 19 no. 21/22:  
449-450 25 N '63.

1. Management of Pharmacies of Poznan Voivodeship and City of  
Poznan, Poznan.

POLAND

Dr Wanda DEBSKA and Dr Jan FEFKE (Affiliations not given)

"Scientific and Technical Advances in Pharmacies."

Warsaw, Farmacja Polska, Vol 10, No 21, 10 Nov 1962; pp 522-526.

Abstract: Discussion about the advances in prescription control, mechanization of pharmaceutical work and automation of operations in pharmacies, and need for continuous schooling of graduate pharmacists. [Five Western and 7 Polish references.]

1/1

HUNGARY

KOVACS, Gabor, Dr; PEPO, Janos, Dr; LELEK, Imre, Dr; Medical University of Szeged, First Surgical Clinic and Rontgenological Clinic (Szegedi Orvostudomanyi Egyetem, I. Sebeszeti Klinika es Rontgenklinika)

"Experiences with Arterial Catheterization by the Sedlanger Technique."

Budapest, Orvosi Hetilap, Vol 103, No 50, 16 Dec 62, pages 2369-2376.

Abstract: [Authors' summary modified] The authors describe the Sedlanger technique in detail and report on its application in 137 cases. Catheter was introduced into the artery in 107 cases, into the vein in 30 cases for the purpose of angiography or pressure measurement. No significant complications were encountered.

[3 Hungarian, 28 Western references]

1/1

41

PEPKA, J.; SUSZKO, J.

Studies on transformation of alkaloid chlorides in quinine group.  
Acta Poloniae pharm. 9 no. 4:257-272 1952. (CIML 24:1)

1. Of the Institute of Organic Chemistry of Poznan University.

P E P K E ,

Chemical Abst.  
Vol. 48  
Apr. 10, 1954  
Organic Chemistry

"The 'Pasteur reaction' of the alkaloids of the quinine bark. Jan Pępkę (Univ. Poznań, Poland). *Farm. Polka* 3, 415-182 (1952) review article. The Pasteur rearrangement has generally been formulated as an isomerization of 1-hydroxy-2-amino compds. into a basic ketone, with the rupture of a N-C linkage and the shift of 2 H atoms. Especially the work done by Rabe and McMillan (*C.A.* 5, 800; 29, 1829) shows that this formulation is not correct as far as the alkaloids of the quinine bark are concerned and further investigation is required."

PEPKO, Jan

SURNAMES (in code); Given Names

Country: Poland

Academic Degrees: Dr

Affiliation: [not given]

Source: Warsaw, Farmacja Polska, Vol XVII, No 12, 25 June 1961,  
247-248

Data: "A Successful Experiment in Creating a Special Supply  
Basis for Poznan."

L 6991-35 JMT(m)/EPF(c)/SFR/EPF(2)/EMF(b) PR-4/Ps-4 AEDC(5) - JD/JW  
ACCESSION NR: AP4034591 8/06/64/033/001/1024/1026

AUTHOR: Pepkin, V. I.; Dyimova, T. N.; Lebedev, Yu. A.; Apin, A. Ya. B

TITLE: Heat of formation of magnesium hydride

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 4, 1964, 1024-1026

TOPIC TAGS: magnesium hydride, heat of formation, heat of combustion, enthalpy of formation

ABSTRACT: The heat of formation of magnesium hydride by reaction of magnesium and hydrogen was determined using a calorimeter equipped with coil piping for rapidly heating the liquid. The heat of formation of magnesium hydride was found to be 20.4 kJ/g for the reaction  $Mg + H_2 \rightarrow MgH$ .

The authors thank Prof. G. B. Demchenko for his interest in this work and Dr. V. V. Kuznetsov and G. V. Slobodchikov for their help in carrying out the experiments.

The authors thank Prof. G. B. Demchenko for his interest in this work and Dr. V. V. Kuznetsov and G. V. Slobodchikov for their help in carrying out the experiments.

Card 1/2

L 6991-65  
ACCESSION NR: AP2034591

ASSOCIATION: Institut khimicheskoy fiziki, Akademiya nauk SSSR (Institute of Chemical Physics, Academy of Sciences SSSR)

SUBMITTED: 25 Jun 63

ENCL: 00

SUB CODE: 00 10

EO REF 80%: 003

OTHER: 002

Card 2/2

PEPLOV, B.

Treatment of newborn and nursing infants with acute suppurative pleurisy. Vop. okh. mat. i det. 6 no.12:32-35 D '61. (MIRA 15:3)

1. Iz kafedry khirurgii detskogo vozrasta (ispolnyayushchiy obyazannosti zaveduyushchego - doktor med.nauk G.A. Bairov) Leningradskogo pediatricheskogo meditsinskogo instituta (rektor - dotsent Ye.P. Semenova).

(PLEURISY)  
(INFANTS—DISEASES)

PEPLOV, B.

Lung inflation in the treatment of pyopneumothorax in children.  
Vestn. khir. Grekov. 90 no.4:12-14 Ap'63. (MIRA 17:2)

1. Iz kafedry khirurgii detskogo vozrasta ( zav. - prof. G.A. Bairov ) Leningradskogo pediatriceskogo meditsinskogo instituta.  
Adres avtora: Leningrad, Litovskaya ul., d.2, Leningradskiy pediatriceskiy meditsinskiy institut.

BELOVA, A.P., kand.med.nauk; PEPLOV, B., subordinator

Case of acute myeloid leukosis with rare localization of a  
pronounced tumor growth in 4-year-old girl. Vop. okh. mat.  
i det. 5 no. 5:85-87 S-0 '60. (MIRA 13:10)

1. Iz kafedry gospital'noy pediatrii (zav. - deystvitel'nyy  
chlen AMN SSSR prof. A.F. Tur) Leningradskogo pediatriceskogo  
meditsinskogo instituta (dir. - prof. N.T. Shutova).  
(LEUKEMIA) (EAR—TUMORS)

AUTHOR: Peplov, E.E., Engineer SOV-99-58-9-5/9

TITLE: Automatic Segmentary Waterlocks (Avtomatusheskiye vododeystvuyushchiye segmentnyye zatvory)

PERIODICAL: Gidrotekhnika i melioratsiya, 1958, Nr 9, pp 35-42 (USSR)

ABSTRACT: In connection with tests of automatic segmentary waterlocks conducted by the SANIIRI, the author describes the tests he made with waterlocks of the Neyrpik system, widely used abroad. These waterlocks automatically maintain the level of the upper or lower water by means of a buoy installed in front of the lock and a counterweight behind it. As a result of these tests he devised formulae which govern the operations of these locks and suggested minor changes to simplify their construction. There are 16 diagrams.

ASSOCIATION: (SANIIRI)

1. Inland waterways--Control systems 2. Liquid level control  
--Equipment

Card 1/1

PEPLOV, E. M., inshener; KOKAYA, N.V., inshener.

Sluice gate with an air chamber. Gidr. i mel. 8 no.6:37-41  
Je '56. (MLRA 9:9)

(Gates, Hydraulic)

PEPLOZ'YAN, A.I.

PEPLOZ'YAN, Andronik Borzegovich; DEMESHIN, P.I., red.; SIDEL'NIKOVA, L.A.,  
red.izd-va; SHITS, V.P., tekhn.red.

[Technical control in woodworking plants] Tekhnicheskii kontrol'  
na derevoobrabatyvaiushchikh predpriatiakh. Moskva, Goslesbum-  
izdat, 1956. 107 p.  
(Woodworking industries)

KOVACS, G.S.; PEPO, J.; LELEK, I.

Experience with Seldinger's technique of arterial catheterization. Acta chir. acad. sci. Hung. 4 no.2:111-123 '63.

1. First Department of Surgery (Director, Prof. G. Petri),  
and Department of Radiology (Director, Prof. T. Szenes),  
University Medical School, Szeged.  
(ANGIOGRAPHY) (CATHETERIZATION)  
(FEMORAL ARTERY) (BRACHIAL ARTERY)  
(ILIAC ARTERY) (RENAL ARTERY)  
(FEMORAL VEIN) (AORTA, ABDOMINAL)  
(AORTA, THORACIC)

KOVACS, G.S.; PEPPO, J.

Use of selective arterial dilution in the study of increased bronchopulmonary collateral circulation in chronic destructive lung disease. Acta. chir. acad. sci. Hung. 5 no.4:291-305 '64.

1. First Department of Surgery (Director: Prof. G. Petri),  
University Medical School, Szeged.

HUNGARY

KOVACE, Gabor, Dr. PEPO, Janos, Dr. FELVAI, Bala, Dr; Medical University of Szeged, I. Surgical Clinic and I, Medical Clinic (Szegedi Orvostudomanyi Egyesum, I. Sebestyeni Klinika es I. Belgyogyaszati Klinika).

"Transseptal Catheterisation of the Left Side of the Heart."

Budapest, Orvosi Hetilap, Vol 104, No 9, 3 Mar 63, pages 395-401.

Abstract: [Authors' Hungarian summary] The authors give a summary of the techniques of catheterization of the left side of the heart and their clinical application. The transseptal catheterization is described in detail. The technique was used on 26 patients with successful result in 25 of the cases. Serious complications were not encountered. The technique described by the authors is simple, safe and can be used in any cardiological laboratory. Good quality pressure curves were obtained and pathological changes in the left side could be diagnosed accurately. Some characteristic pressure curves are reproduced. 3 Hungarian, 25 Western references.

11/1

KOVACS, Gabor, dr.; PEPO, Janos, dr.; FELKAI, Bela, dr.

Transseptal catheterization of the left heart. Orv. hetil. 104 no.9:  
395-400 3 Mr '63.

1. Szegedi Orvostudomanyi Egyetem, I. Sebeszeti Klinika es I.  
Belgyogyaszati Klinika.  
(HEART CATHETERIZATION)

KOVACS, Z.S.; FERG, J.

Demonstration of increased bronchopulmonary collateral flow  
in chronic destructive lung disease. Acta chir. acad. sci.  
Hung. 5 no.2:165-168 '64.

1. First Department of Surgery and Institute of Experimental  
Surgery (Director: Prof. G. Petri), University Medical School,  
Szeged.

FELKAI, Bela, dr.; KOVACS, Gabor, dr.; PEPO, Janos, dr.

Diagnostic possibilities of modern cardiological methods in  
the detection of mitral defects. Orv. hetil. 105 no.50:2353-  
2362 13 D '64.

1. Szegedi Orvostudomanyi Egyetem, I. Belklinika (igazgato:  
Julesz Miklos dr.) & I.Sebeszeti Klinika (igazgato: Petri  
Gabor dr.)

KOVACS, Gabor, dr.; PEPQ, Janos, dr.; LELEK, Imre, dr.

Our experiences with Seldinger's arterial catheterization. Orv.  
hetil. 103 no.50:2369-2376 16 D '62.

I. Szegedi Orvostudomanyi Egyetem, I. Sebeszeti Klinika es  
Rontgenklinika.  
(CATHETERIZATION) (ARTERIES) (ANGIOGRAPHY)

PEPO, L.

PEPO, L., Inspection of seeds before our spring sowing. p.6.

Vol. 9, no. 11, November 1955 Tirane, Albania PER BUQESINE SOCIALISTE

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10, Oct. 1956

~~PEOR~~ EVA

Two interesting innovations of the Hungarian Worsted Spinning Mill.  
Musz elet 16 no.3:11 F '61. (EEAI 10:4)  
(Hungary...Worsted)

COUNTRY	: RUMANIA
CATEGORY	: Chemical Technology. Chemical Products and Their Applications. Food Industry.
ABS. JOUR.	: AZKhim., No. 19, 1959, No. 69630
AUTHOR	: <u>Pecovici</u>
LISP.	: -
TITLE	: Determination of Food Dyes with the Aid of Fluorescence
ORIG. PUB.	: Rev. ind. aliment. prod. vegetale, 1958, No 7-8, 19-34.
ABSTRACT	: The "41 Dye" was studied with the aid of fluorescent chromatography employing the "spot" method (2 spots are made, one employing maximum concentration, another, a minimum concentration) and using diffused daylight with the intensity of 75 lk developed by an incandescent bulb; unfiltered ultraviolet light (1300-4558A) developed by a mercury Nanau type; and filtered ultraviolet light (filtered through a dark Ni oxide glass) of 3650 Å wavelength, developed by a 75 v. quartz mercury bulb of the Philora
CARD:	1/3
CARD:	2/3

Pepowicz, D.

-2028

Pepowicz D. Shaft Cage Safety Catches.

822,573-59

"Spadochrony wyciągów szybowych". Przegląd Górnictwa, No. 7,  
1953, pp. 240-250.

Critical review of different methods of operating the safety catches  
in various types of shaft guide-ways. The most satisfactory of all de-  
vices appears to be an electro-magnetic release actuated by impulses  
emanating from the loop of the cage balancing rope at the bottom of  
the shaft and transmitted, by means of the brake rope, to the cage.

Popp, N.; Ionescu, N.

Borin in the Danube River delta; some geomorphological and hydrogeological interpretations. p. 231.

HIDROBIOLOGIA. (Academia Republicii Populare Romane. Comisie de Hidrologie, hidrobiologie si Iahitologie) Bucuresti, Rumania. Vol. 1, 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959

Uncl.

Pepper E.

RUMANIA/Analytical Chemistry / Analysis of Onorganic Substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24757

Author : Pepper, E., Ariton, N., Proinov, L., Craciunescu, R.

Inst Title : New Rapid Method of Gravimetric Determination of Mercury

Orig Pub : Rev. chim., 1957, 8, No 9, 594-596

Abstract : For the determination of  $Hg^{2+}$  use is made of a new reagent 2-mercapto-5-anilino-1,3,4-thiodiazole (I) (RZhKhim, 1958, 24774), which is a white-yellow powder, MP 215-216°, readily soluble in  $C_2H_5OH$ , less soluble in alkalies and insoluble in water. I precipitates  $Ag^+$ ,  $Pb^{2+}$ ,  $Hg^{2+}$ ,  $Hg^{3+}$ ,  $Bi^{3+}$ ,  $Cu^{2+}$ ,  $Co^{2+}$  and  $Fe^{3+}$ .  $Hg^{2+}$  ions form with I a yellow precipitate insoluble in  $C_2H_5OH$  and in ether and suitable for gravimetric determination of Hg. The solution being analyzed, containing Hg as  $HgCl_2$  or  $Hg(NO_3)_2$  (concentration of free  $HNO_3$  not above 0.2-0.3 N), is diluted with twice its volume of  $C_2H_5OH$ , and  $Hg^{2+}$  is precipitated with

Card 1/2

SOTNIKOV, B.; PEPRINTSEVA, N.

Worthy of the high rank, Stroitel' 8 no.5:14 My '62. (MIRA 15:7)  
(Magnitogorsk--Building)

PEPRNY, J., inz.; ZAJIC, V., inz., dr.

Automatically controlled wind tunnel for testing blade  
grids. Strojirenstvi 12 no.10:775-780 10 0 '62.

1. Leninovy zavody, Plzen (for Peprny); 2. Ceskoslovenska  
akademie ved, Praha (for Zajic).

41389

Z/032/62/012/010/002/002

E160/E435

26.4110

76.2127

AUTHORS: Peprný, J., Engineer, Zajíc, V., Engineer Doctor

TITLE: Mechanized wind tunnel for testing blade cascades

PERIODICAL: Strojírenství, v.12, no.10, 1962, 774-780

TEXT: The authors describe an experimental wind tunnel where the running parameters, such as air temperature, velocity of air flow, velocity and static heads before the cascade, velocity and static heads as well as direction of air flow after the cascade, are automatically controlled. Relevant readings monitored are evaluated by special analog computers containing mainly mechanical elements. For air temperature control the tunnel is provided with a heater of 10 kW output supplied by a d.c. generator which is switched on and off through a relay, actuated by a thermostat. The temperature is maintained within  $\pm 0.1^{\circ}\text{C}$ . Air velocity is regulated with the help of a blow-off valve operated by a servomotor, itself actuated through an electronic circuit by a micro-manometer in which the regulated pressure is balanced against the atmosphere. A needle contact with one of the surfaces in the micro-manometer brings the servomotor into operation. Velocity ✓

Card 1/3

Mechanized wind tunnel ...

Z/032/62/012/010/002/002  
E160/E435

is maintained at a constant value within  $\pm 0.25\%$ . Three-hole probes are used for monitoring velocity and static heads before and after the cascade. The upstream probe is fixed, whilst the downstream one is automatically placed, with the help of a servomotor and a special micro-manometer equipped with contacts, so that the middle hole faces exactly the direction of flow. Readings are fed into three analog computers which give: static pressure behind the cascade to enable correct positioning of the plane of traverse to be effected, mean velocity head and outlet angle as well as recording individual values across the traverse and, finally, the aerodynamic force on the blade. Static pressure behind the cascade can be continuously checked on a bank of manometers consisting of three U-tubes. Static pressure is derived from a difference of total and velocity heads. The bore of the two manometer tubes involved and densities of liquids they contain are arranged so that direct reading of static head can be obtained by a simple operation of a curser. The third tube is used to check that the probe faces the stream. A detailed description is given of the computer for integrating velocity head Card 2/3

5  
Mechanized wind tunnel ...

Z/032/62/012/010/002/002  
E160/E435

10 readings in preparation for the calculation of the mean value of the velocity head. The operation of the computer is each time initiated from a control panel by simply pressing a switch. Though certain arithmetic operations still have to be done manually, it is estimated that this represents only 10% of the total work. A description is also given of the computer for the evaluation of total aerodynamic force on the blade which saves laborious manual calculations and recording. The tunnel accommodates blades 15.75 inches long, with a depth of profile 2 to 4 inches; maximum air flow is 5720 cubic feet /min at room temperature and at a maximum air velocity of 183 feet/sec. There are 12 figures.

15 ASSOCIATIONS: LZ, Plzen (J. Peprny)  
CSAV, Prague (V. Zajic)

20 Card 3/3

Pepny, Josef.

10(0) 26(1)

PHASE I BOOK EXTRACTS

CZCS/2369

**Catabolomats' Atmende Vod. Selen' technika'**

Produced by Technicheskij ströjich (Now through Turbomechanics) Praha, Neklaia-  
belová, Technicheský Atmende Vod. 1958. 413 p. (Series: Téz. Sborník  
Ústava pro výrobu strojů) Konec slibu inserted. 1,250 copies printed.

Scientific Ed.: Jan Šeře, Engineer, Doctor, Corresponding Member of the Czechoslovak  
Academy of Sciences; Rep. Ed.: Ladislav Endra; Tech. Ed.: František  
Endra.

PURPOSE: This collection of papers is intended for engineers and scientific  
workers in the field of turbomechanics.

COVERAGE: The collection covers turbomechanics theory, investigations of the  
flow of working substance in basic elements of turbomechanical phenomena as  
competing flow and variable velocity, and investigations of various problems  
on experimental machines and models. A Russian and an English summary follows  
each paper. No personalities are mentioned. There are 129 references; 73  
Czech, 51 German, 20 Russian, and 1 Dutch.

2. Wermel, P., Engineer, ČGD Bratislava. Optimum Solving of the Task:  
to the Popular of a Turbocompressor with Liquid Performance, VZL (Prague) - Technický  
Institut, Bratislava, Oldrich, Doctor of Technical Sciences, VUT.  
Discussion: Baláž, Oldrich, Doctor of Technical Sciences, VUT.  
With: Matěj Dvořák, Design of Centrifugal Pump and Water Turbine Impellers
3. Štefan, František, Engineer, Doctor of Technical Sciences, VUT.  
Designing Warped Blades of Centrifugal Pump and Water Turbine Impellers  
With: Matěj Dvořák, Design of Centrifugal Pump and Water Turbine Impellers
4. Education Week, J., Engineer, Doctor, VZL

## II. FLOW RESEARCH IN BASIC ELEMENTS OF TURBOMACHINERY

5. Horáček, Miroslav, Engineer, VUT. Systematic Research on Airfoil  
Cascade. Discussion: Hlubík, Miroslav, Engineer, VUT  
Hlubík, Miroslav, Engineer, VUT  
Hlubík, Miroslav, Engineer, VUT  
Mach, Zdeněk, Engineer, VUT
6. Bičák, Jiří, Engineer, VUT. Methods of Research on Airfoil  
Cascade and Their Application in Designing Turbine Blades  
Discussion: Koval, Milan, Engineer, VUT (The First Škoda  
Engineering Works of Kláiment Gottwald)  
Turbine Blade Profile
7. Dubravský, Jan, Doctor C. Sc., (Czech Aerodynamics) VZL. Research on  
Arrangement of Blading in High-speed Turbomechanics
8. Žalíčka, Vladislav, Doctor, Engineer, VZL (V. I. Lenin Works, Plzeň).  
Evaluation of Measurements of Airfoil Cascade and Use of  
Analog Computers
9. Dlouhý, Josef, Engineer, VUT (Mechanics Research Institute) VUT,  
Prague. Wind Tunnel for Airfoil-Cascade Research
10. Šimáček, Dušek, Doctor of Natural Sciences, VZL. Modern Ideas  
on Turbulence in the Boundary Layer
11. Dlouhý, Josef, R., Engineer, and M. Pichal, Engineer,  
DVA (Institute for Research on Mechanics) Contribution  
to Measuring Turbulence in a Compressible Medium
12. Šmejkal, Bohumil, Engineer, VUT. Self-excited Vibrations of  
Blades in Turbomechanics

PEPTROV, I

"Present state of genetics and its methods."

BIOLOGIA, Bratislava, Czechoslovakia, Vol. 13, no. 7, 1958

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Sept 59  
Uncles

PEPTYUK, V.G., provizor; DUVANOVA, V.D., vrach

Rostov drug stores operate in a new way. Apt.delo 8 no.3:45-  
46 My-Je '59.  
(MIRA 12:8)

1. Iz Rostovskogo-na-Donu otdeleniya Glavnogo aptechnogo  
upravleniya RSFSR.  
(ROSTOV-ON-DON--DRUG STORES)

PEPTYUN, V.G.

Work of the manual department in pharmacies. Apt.delo 5 no.6;28-29  
N-D '56. (MIRA 10:1)

1. Farminspektor Astrakhanskogo aptechnogo upravleniya Glavnogo  
aptekoupravleniya RSFSR.  
(PHARMACY)

PEPUSHCHY, K. [Papusoi, K.]

Spherical analysis of the geomagnetic field for the epoch 1955, O.  
Geomag.i aer. 2 no.1:161-166 Ja-F '62. (MIRA 15:11)

1. Yasskiy universitet imeni A.I.Kuza, Rumyniya.  
(Magnetism, Terrestrial)

S/146/62/005/001/011/011  
D232/D302

AUTHORS:

Per, A., Ivanov, A., and Khvalovskiy, V., Docents

TITLE:

Dissertations for the degree of Candidate of Sciences at the  
Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad  
Institute of Precision Mechanics and Optics)

PERIODICAL:

Izvestiya vyshikh uchebnykh zavedeniy. Priborostroyeniye,  
v. 5, no. 1, 1962, 147-149

TEXT: The following dissertations were presented: S.V. Minin 'Investigation of the influence of Basic Technological Factors on Some of the Characteristics of an Asynchronous Tachometer'; Scientific Supervisor - Professor N.P. Sobolev (Deceased), Examiners - Doctor of Technical Sciences Professor L.V. Vasil'yev and Candidate of Technical Sciences, Docent L.S. Nemchenok, S.I. Kistrusskiy 'Investigation of the Finishing Treatment of the External Contours of Instrument Components produced by Stamping'. Scientific supervisor - Professor Sobolev, Examiners - Doctor of Technical Sciences, Professor P.I. Bulovskiy and Candidate of Technical Sciences,

Card 1/3

S/146/62/005/001/011/011  
D232/D302

Dissertations for the degree ...

Docent A.F. Lobov, Yu. R. Vitenberg 'Investigation of Fine Module Gear Shaping Instruments.' Scientific Supervisor - Professor Sobolev, examiners - Professor Bulovskiy and Candidate of Technical Sciences, Docent A.I. Shepsenvol. A.Ya. Vladimirov 'Study of Precision and Surface Roughness of Hard and brittle Materials worked by Ultrasonics'. Scientific Supervisor - Professor sobolev, examiners - Professor bulovskiy and docent Shepsenvol. O.Ya. Konstantinov 'Study of the Process of Plane Grinding with a High degree of Smoothness and Precision'. Scientific Supervisor - Doctor of Technical Sciences, Professor A.A. Matalin, Examiners - Professor Bulovskiy and Candidate of Technical Sciences, Docent Yu. N. Agarkov. Ye. Alakhov 'Theory of Operation of a Reflection Klystron with Autodyne and its Application to the Construction of adjustment for the Measurement of an Electromagnetic Field of Secondary Radiation of Various Bodies', Scientific Supervisor - Doctor of Technical Sciences, Professor S.I. Zilitinkovich, Examinors - Doctor of Technical Sciences, Professor Yu.A. Katsman and Candidate of Technical sciences, docent Ivanov, A.M. Fedorov 'Study and development of Apparatus and Methods for High Accuracy Measurement of Voltage at Frequencies up to 1,000 Nc/s'. Scientific Supervisor,

Card 2/3

S/146/62/005/001/011/011

Dissertations for the degree... D232/D302

Candidate of Technical Sciences B.Ye. Rabinovich, Examiners - Doctor of Technical Sciences, Professor G.D. Burdun and Candidate of Technical Sciences, Docent A.A. Tudorovskiy. V.A. Panov 'Study and Design of Mirror-Lens Achromatic Objectives of a Microscope with a Flat Image Plane and Reduced Central Screening of the Aperture'. Examiners - Corresponding Member of the AS USSR, D.D. Maksutov, Doctor of Technical Sciences, Professor M.M. Rusinov, and Doctor of Physical and Mathematical Sciences Ye. G. Yakhontov.

Card 3/3

PER, A., dotsent; IVANOV, A., dotsent; KHVALOVSKIY, V., dotsent

Dissertations for the degree of candidate of sciences at the  
Leningrad Institute of Precision Mechanics and Optics. Izv.  
vys.ucheb.zav.; prib. 5 no.1:147-149 '62. (MIRA 15:2)  
(Bibliography—Mechanical engineering)

PKR, A.G., kand. tekhn. nauk, dots.

Precision of transverse wheel-advance gears in circular grinding  
machines. Sbor. st. LITMO no.23:57-62 '57. (MIRA 11:5)  
(Grinding machines)